

Serial No.: 09/641,667  
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NOTE: A continuation application (carrying forward claims Unallowed in the present application) HAS been timely filed. When the serial number thereof is received, Applicant will take the liberty of informing the Examiner thereof should the Examiner wish to attempt to himself examine the related successor, continuation, patent application.

Sincerely yours,

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[ ] Filed Under 37 CFR §1.34(a)

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office at ~~703-672-9207~~ (Technology Center 1600) on February 20, 2006:

~~571-273-8700~~  
Date: February 27, 2006 Signature:

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## CLAIMS (IN AMENDED FORM)

1. (Previously Amended) A method of assaying molecules in a sample comprising the steps of:
  - providing a sample that contains one or more target molecules or molecular complexes;
  - contacting said target with one or more probes under conditions which permit the formation of a target-probe complex, wherein the probe comprises one or more magnetic labels;
  - subjecting said target-probe complex to an applied magnetic field so as to induce magnetization; and
  - measuring and characterizing a magnetic signal of said target-probe complex induced by said magnetic field to determine a hysteresis loop of the target-probe complex, and thus also of the one or more target molecules or molecular complexes.
2. (Original) The method of claim 1, wherein said target molecule or molecular complex is disposed on a support.
3. (Previously Amended) The method of claim 2, wherein said target molecule or molecular complex is disposed on the support in an array.
4. (Previously Amended) The method of claim 3, wherein said array is an addressable array.
5. (Previously Amended) The method of claim 1, wherein said one or more probes are disposed on a support.
6. (Previously Amended) The method of claim 5, wherein said one or more probes are disposed on the support in an array.
7. (Original) The method of claim 6, wherein said array is an addressable array.
8. (Previously Amended) The method of claim 1, wherein said